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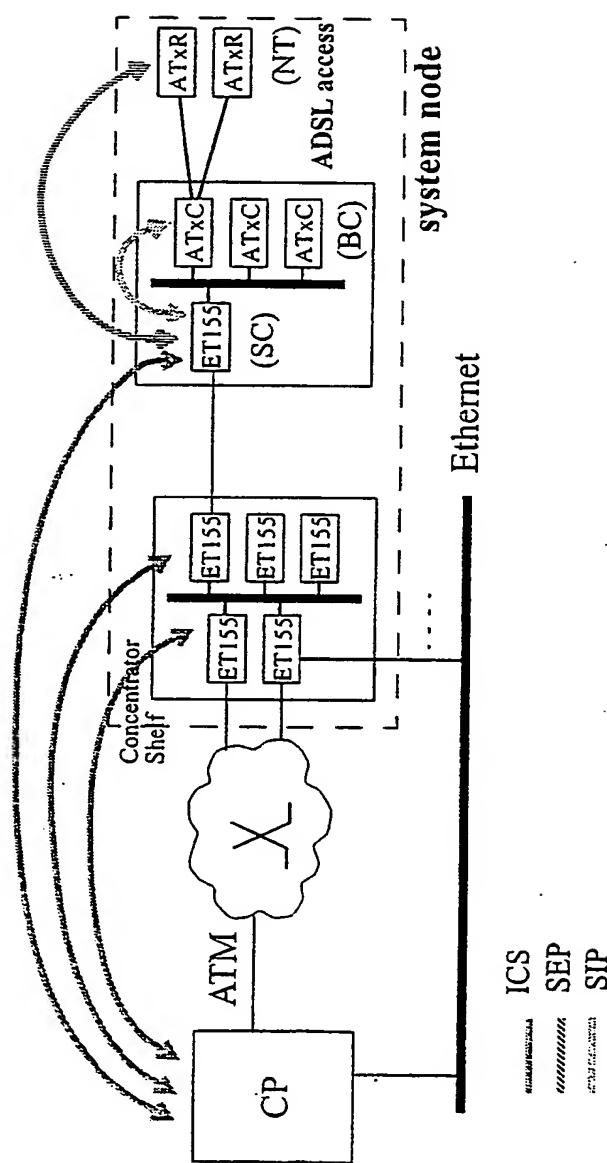
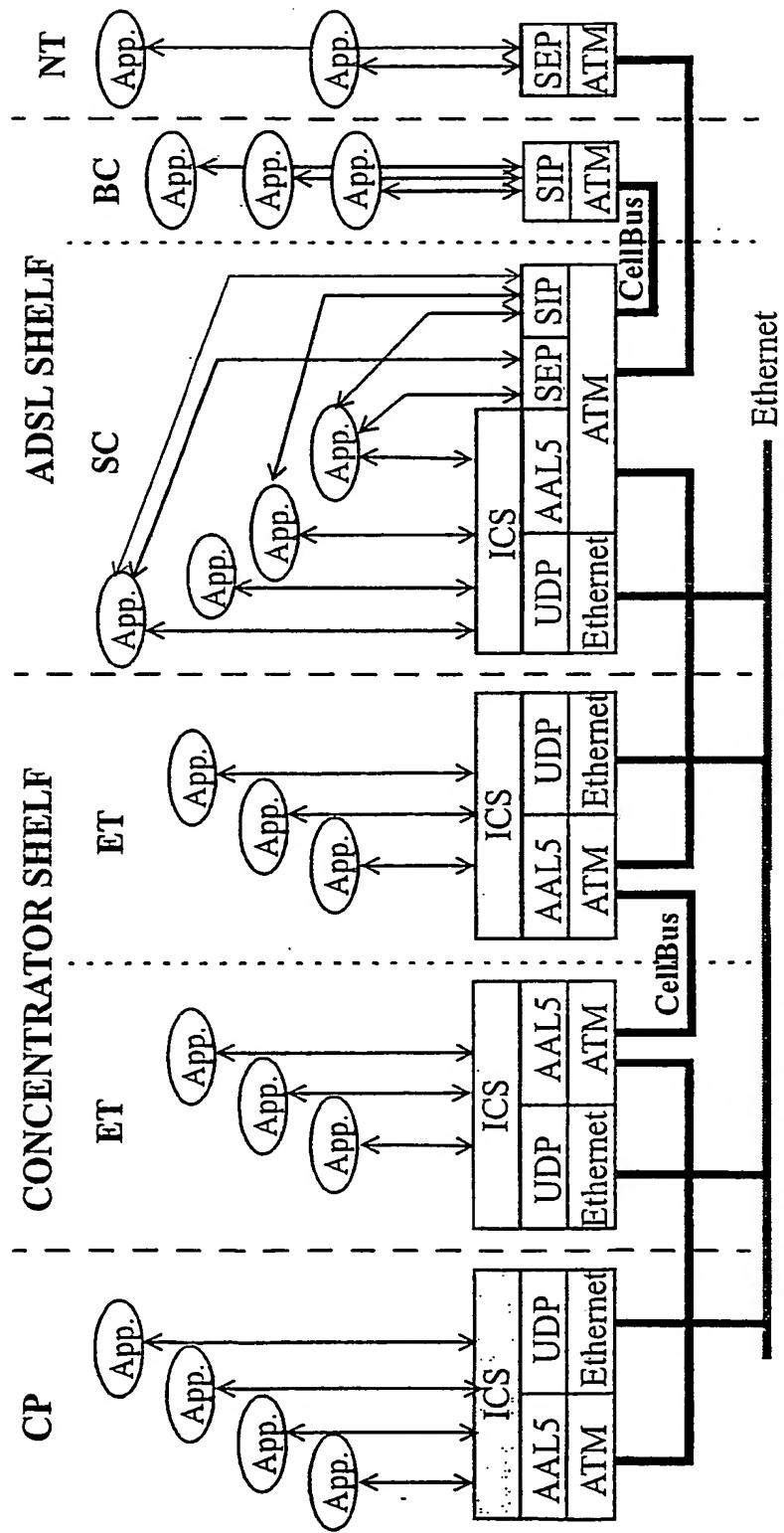


FIG. 1

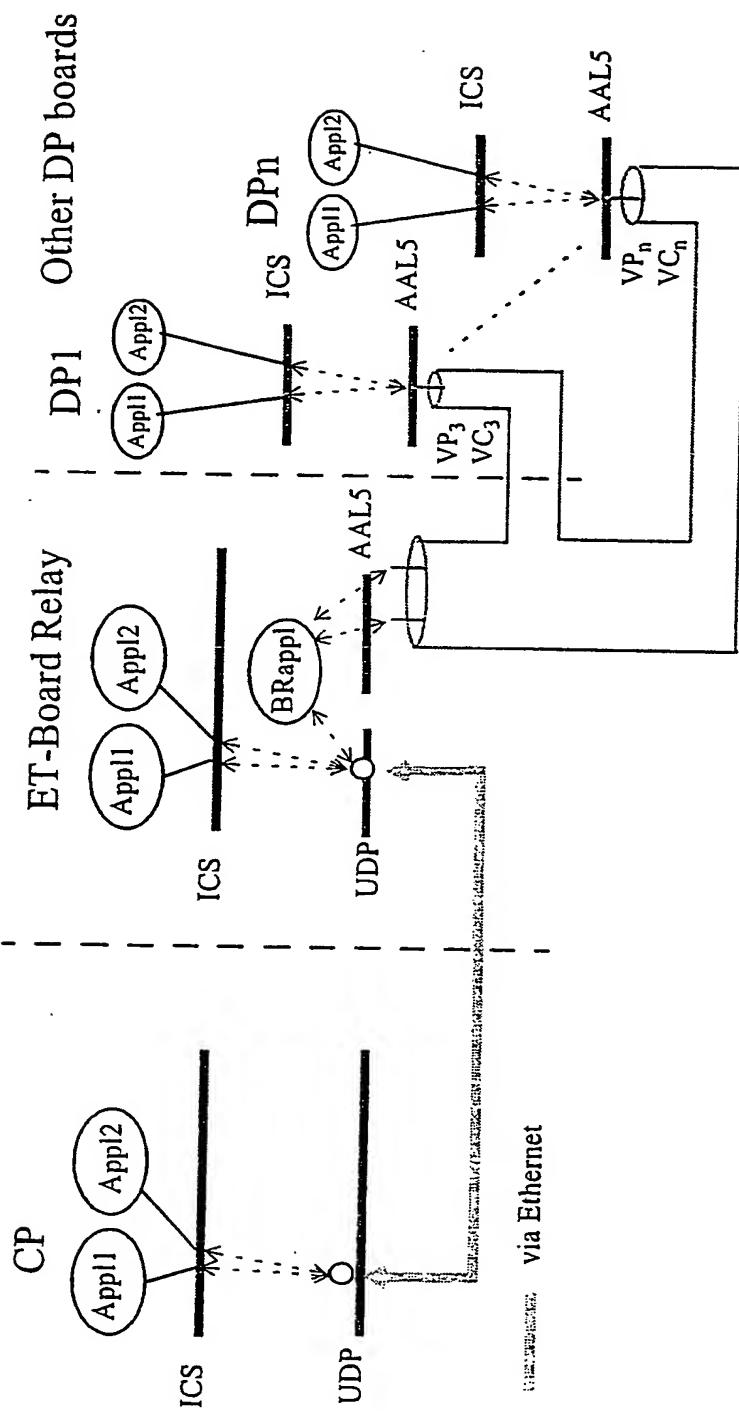
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ET = Exchange Terminal  
 CP = Central Processor  
 BC = Board Controller  
 NT = Network Terminal

FIG. 2



**FIG. 3**

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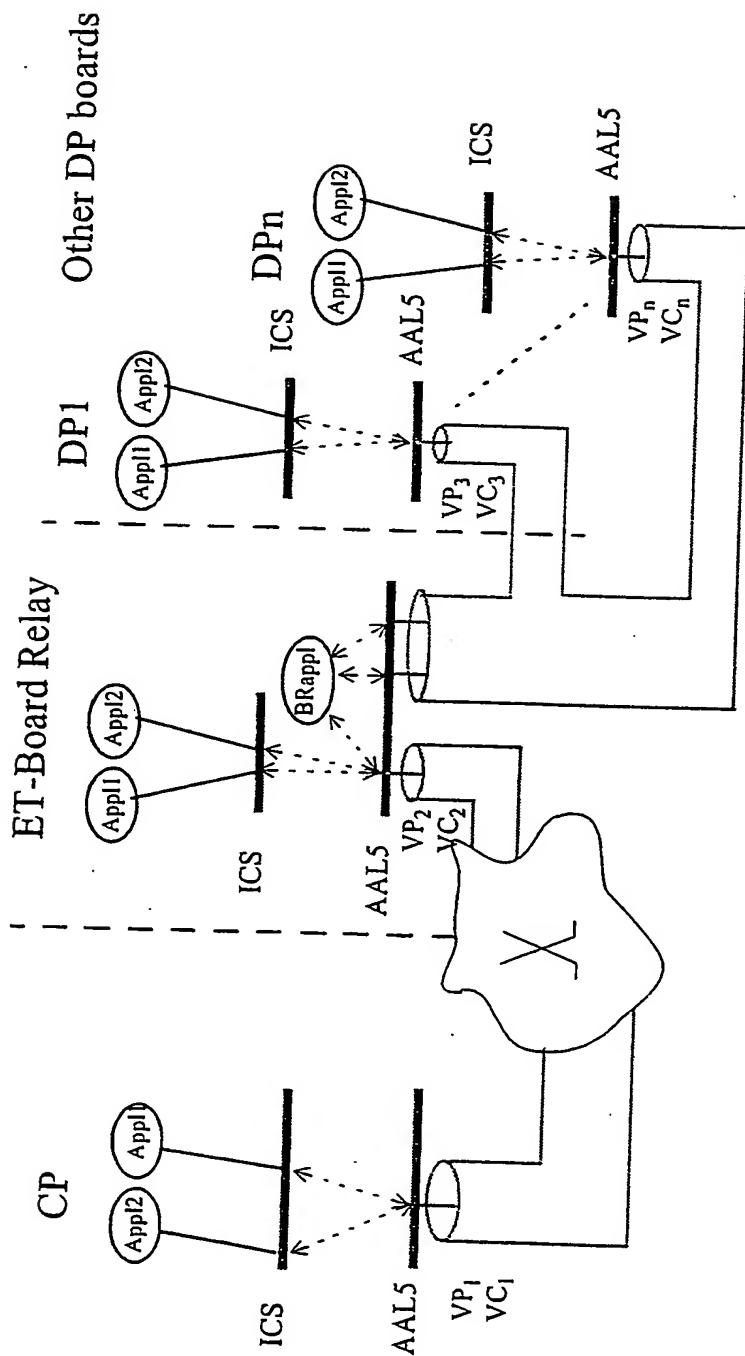


FIG. 4

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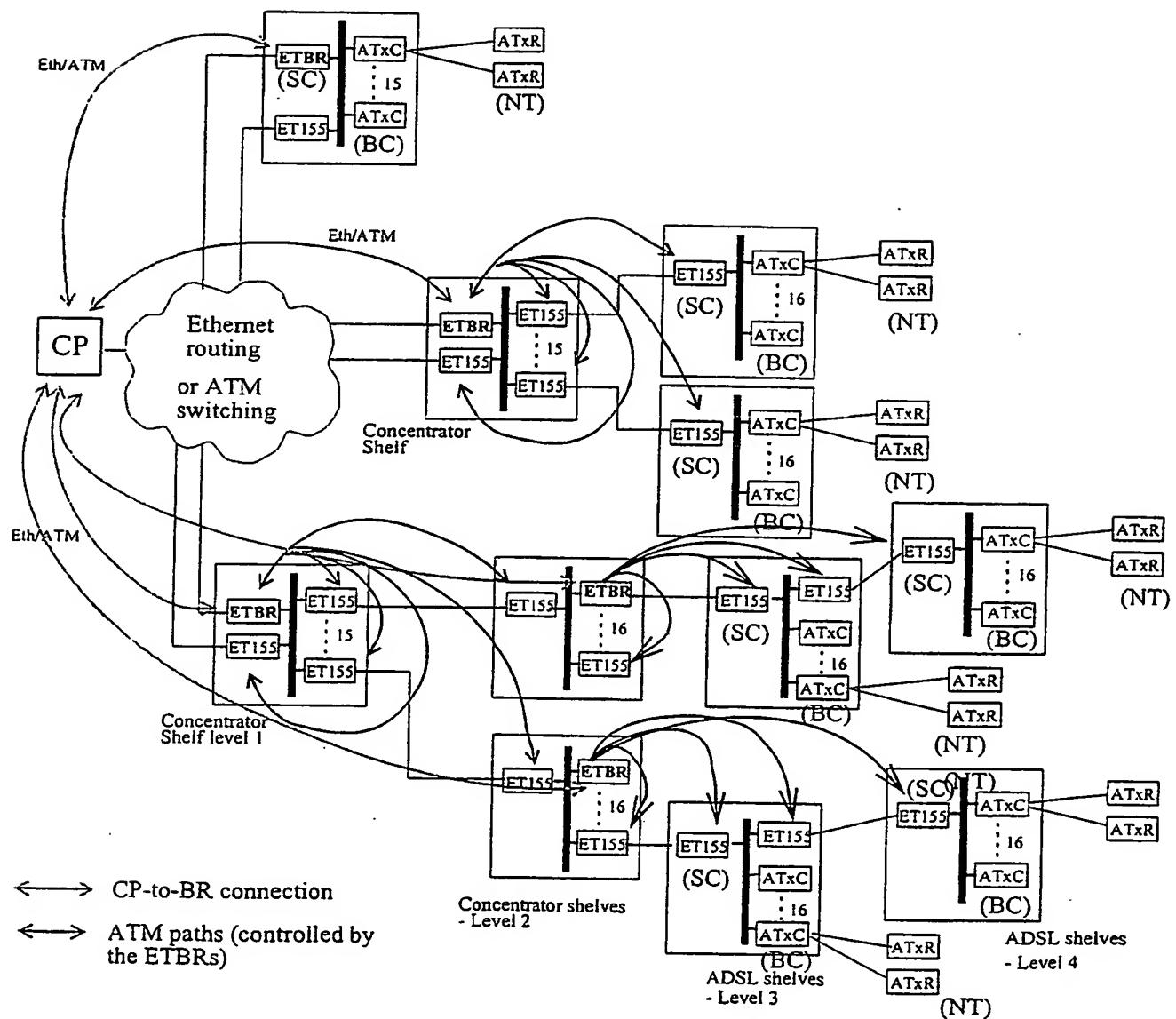
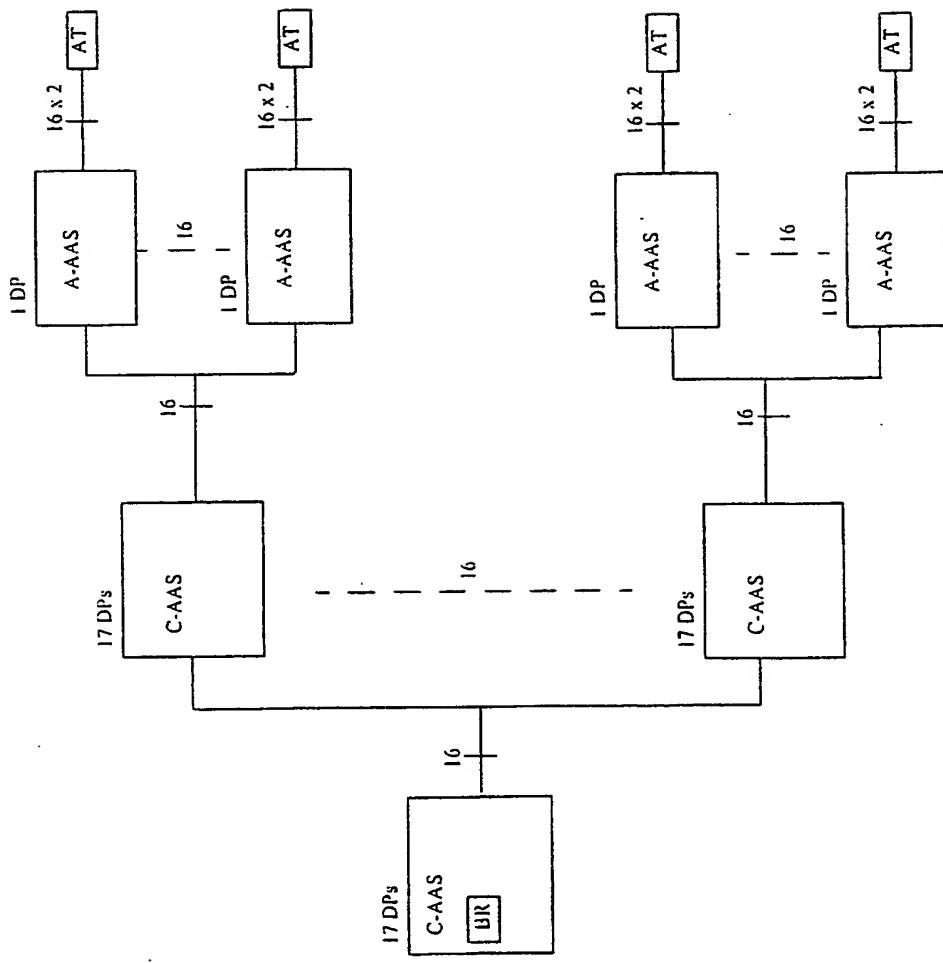


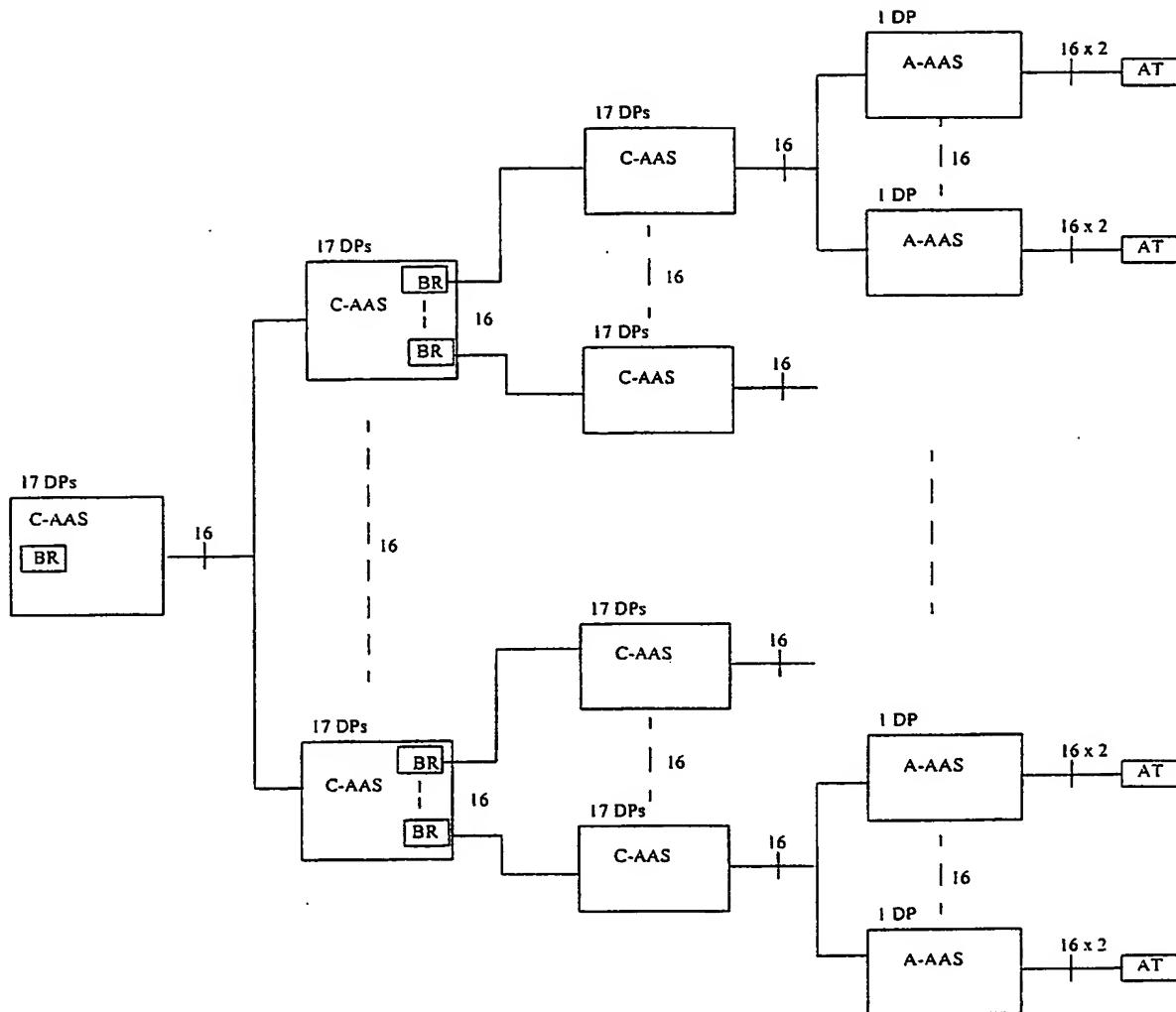
FIG. 5



BR-board placing (example 1) : the ET-master in the first C-AAS relays messages to all the other boards of the System Node (three levels of shelves).

DPs =  $17 + (16 \times 17) + (16 \times 16) = 545$   
 DPs directly connected to CP = 1 (i.e. the BR)  
 DPs handled by the unique BR = 544  
 ADSL users =  $(16 \times 16) \times 16 \times 2 = 8192$

FIG. 6



**BR-boards placing (example 2):** the ET-master in the first C-AAS relays messages to all the other boards of the shelf and to the master of the second level C-AASs; the other boards of the second level C-AASs act as BR relaying messages to ALL the DPs below them.

$$DPs = 17 + (16 \times 17) + (16 \times 16 \times 17) + (16 \times 16 \times 16) = 8737$$

DPs directly connected to CP (i.e. BRs) =  $1 + (16 \times 16) = 257$

DPs handled by each BR of the second level C-AAS =  $17 + 16 = 33$

**ADSL users =  $(16 \times 16 \times 16) \times 16 \times 2 = 131072$**

**FIG. 7**

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